

Abstract

Peptides comprising an Rpt1 domain of an INI1/hSNF5 which inhibit HIV-1 production in a human cell, and vectors encoding those peptides are provided. Also provided are methods of inhibiting HIV-1 production in a cell, or spread of the HIV-1 to another cell, by treating the cells with the above peptides or vectors. Other methods of inhibiting HIV-1 production in a cell, or spread of the HIV-1 to another cell, by inhibiting production of INI1/hSNF5 are provided. Additionally, methods of determining whether a test compound inhibits HIV-1 virion production in a mammalian cell, or spread of the HIV-1 to another cell, are provided. Those methods comprise determining whether the test compound inhibits the production of INI1/hSNF5 or disrupts the interaction of HIV-1 integrase with INI1/hSNF5.